

104B-3-BR

WILL

FAP 330

SHEET NO. 9

11 SHEETS

TOTAL

42

28

Notes:

With Slot

As Required

VIEW C-C

DETAIL OF 12" \$ & 34" \$

ROUND HEAD BOLTS

Without Slot or Recess

All field drilled holes shall be coated with an approved zinc rich paint before erection.

END OF RAIL DETAILS

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

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Provide one 'g'' and two '\(\) " steel shims for 25% of the posts.

Shims shall be similar to base plates in size and holes.

All steel rall elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SECTION AT RAIL POST

W6x25-

l₈'' Fabric Brg. Pad

Headwall level-

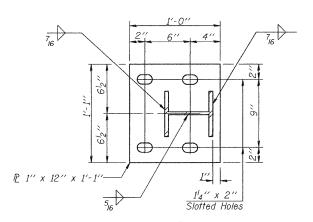
Specifications.

4- 1" \$ H.S. Threaded Anchor

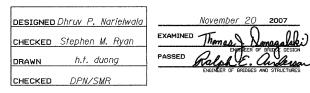
washers, drilled and set according

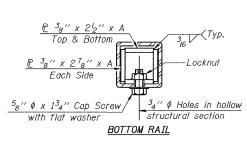
to Article 509.06 of the Standard

Rods with hex nuts and lock



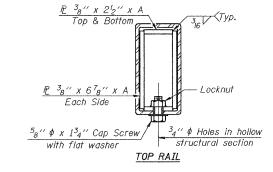
BASE & DETAIL





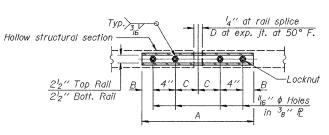
-Top of Roadway & Pavement Surface

-HSS 8 x 4 x 5/16



SECTIONS AT RAIL SPLICE

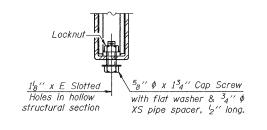
SECTION A-A



PLAN-BOTTOM SPLICE P

TYPICAL

(6'-3" Maximum Post Spacing)



RAIL SPLICE CONNECTION
AT EXPANSION JT.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	70

SPLICE DIMENSIONS

T	D	Α	В	С	E
≤4′′	2'2"	1'-8''	2"	4''	21/2"
>4"≤6 ¹ 2"	334"	2'-0"	2/2"	512"	312"
>6 ¹ 2″≤9″	5''	2'-4"	32"	62"	9''
>9′′≤13′′	7''	2'-10''	412"	812"	11''
Rail Splice	4"	1'-8''	2"	4''	

T = Total movement at expansion joint as shown on the design plans.

STEEL RAILING, TYPE 2399

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649